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Field Service Procedure

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**Julian
Pfgf/Phys Pressure PCB
8603361 Installation**

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Julian Pfgf/Psys Pressure PCB 8603361 Installation

Installation Procedure

Installation:

NOTE: If pressure sensor Pfgf or Psys is faulty, the existing Pressure Sensor PCB (8201761) must be replaced with new Pressure PCB (8603361).

1. Switch off Julian and remove AC power.
2. Remove Julian's rear panels and disconnect the battery.
3. Remove the breathing system and pull out the pneumatic plug-in unit.
4. Remove the EDOS block (see Anesthesia Equip & Monitoring CD-ROM/Julian/Repair Instructions/EDOS/Removing EDOS).
5. Remove the Pressure Sensor PCB (8201761) from the face of the EDOS block.

CAUTION: Be careful when pulling out the sensors. Do not lose the O-rings; you will need them for later installation.

6. To install the new pressure sensor PCB (8603361), you must first remove the piggyback PCB to access the mounting holes. Transfer the O-rings from the old pressure PCB (8201761) to the new pressure PCB. Secure the pressure PCB with screws, then reinstall the piggyback PCB.

CAUTION: The upper and lower boards of the Pressure PCB are matched. Plug in only the corresponding piggyback board.

7. Mount the connector of the enclosed cable harness onto the Actuator PCB (see Figure 1). Plug the 5-pin white connector into X18 (A) (left-aligned). Remove jumper X25 (B) and mount the 3-pin black connector including the connector protection. The two cables of the same color point downwards (jumper simulation).
8. Reinstall the EDOS block and join both connectors to the Pressure PCB (see Figure 2).

Installation Procedure (continued)

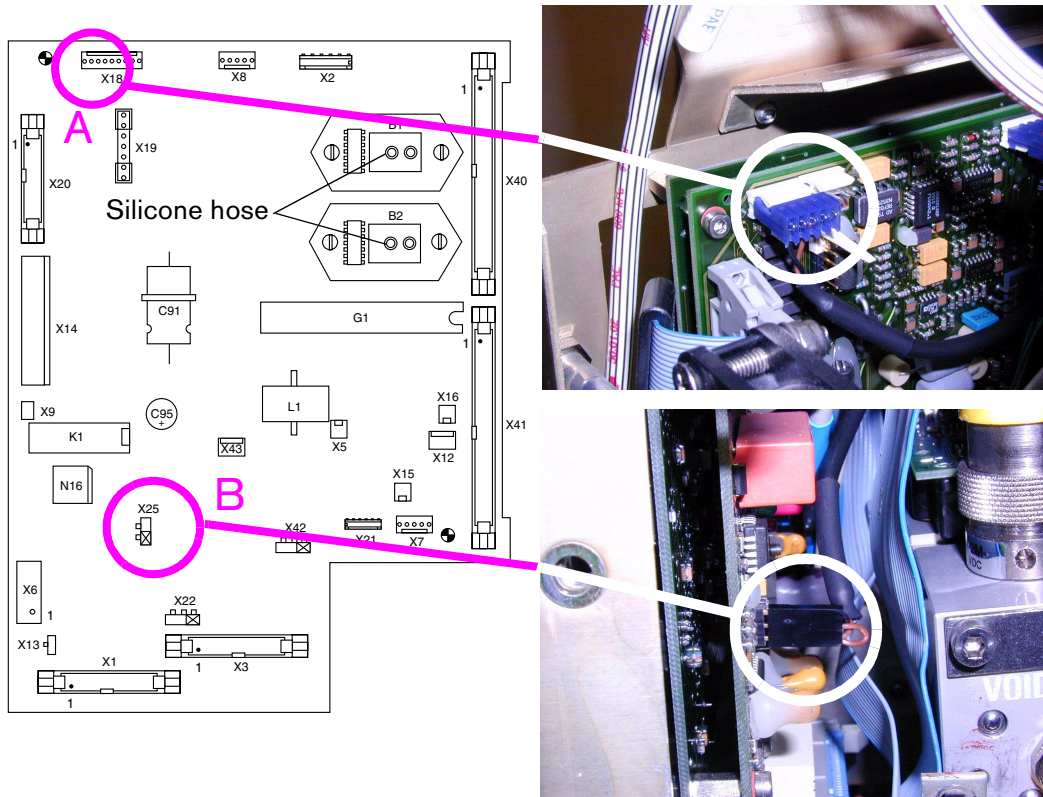


Fig. 1: Location of the connectors

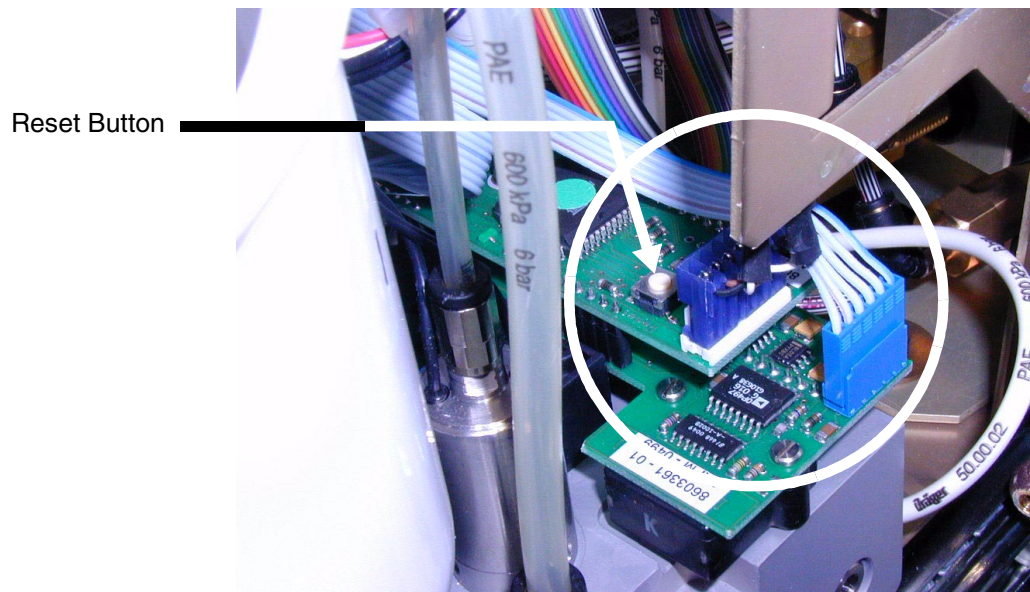


Fig. 2: Installing the connectors of the Pressure PCB

Installation Procedure (continued)

Checking:

1. Switch on the Julian. The red LED comes on; the green LED comes on briefly after about 30 seconds. Then both LEDs go off, indicating successful calibration.
2. After confirming the check list, immediately enter into the service mode. Select the "SpO2/Ventdos" key. Press the "Man/Spont" key to enter the EDOS test. Select V10 and set to 1 L/min.
3. Press the reset button (see Figure 2) on the new Pressure PCB.
4. The test is successfully completed if the red LED is still on after about 45 seconds. The system checks whether the connector is plugged properly into X25. The Pressure PCB receives flow information from V10. Power off Julian.
5. Reassemble the Julian.
6. Carry out the electrical safety test according to Test Certificate (Chapter 22.)
7. Power on Julian. Wait until the self-test is complete.
8. Check the fresh-gas flow according to Test Certificate (Chapter 11.1.)
9. Check the CO2 display of the IRIA. While the pump is on, verify IRIA with Julian test gas (4107979-002). The CO2 value should be displayed.
10. Place the fully functional Julian at the user's/owner's disposal.

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